

(11) Publication number: **2000111902** \$\mu\$

Generated Document.

## PATENT ABSTRACTS OF JAPAN

(21) Application number: 10294324

(51) Intl. Cl.: G02F 1/1335 G02B 5/20 G02F 1/1343

(22) Application date: 16.10.98

(30) Priority:

26.01.9807.07.9805.08.98

JPJPJP

100122411019091310221255

(43) Date of application

21.04.00

publication:(84) Designated contracting

states:

(71) Applicant: SHARP CORP

(72) Inventor: NARUTAKI YOZO

KUBO MASUMI FUJIOKA SHIYOUGO KATAYAMA MIKIO SHIMADA NAOYUKI YOSHIMURA YOJI ISHII YUTAKA

(74) Representative:

## (54) LIQUID CRYSTAL DISPLAY DEVICE

(57) Abstract:

PROBLEM TO BE SOLVED: To easily obtain a liquid crystal display device for both of reflection and transmission types which is high in color purity and embodies a bright color display by constituting regions corresponding to the reflection parts on a substrate on another side of regions where color filter layers are formed and regions where color filters are not formed.

SOLUTION: The regions corresponding to the reflection parts 3 on the color filter substrate are provided with the regions where the color filter layers 11 of the transmission type having the high color purity are formed and the regions B where the color filter layers 11 are not formed. White is displayed

2000111902 A Page 2 of 2

in the regions B where the color filter layers 11 are not formed. This white is mixed with the colors of the color filter layers 11 having the high color purity, by which the bright display necessary for the reflection type is embodied. In such a case, the color filter layers 11A to 11C respectively indicate the color filter layers of R, G, B and are formed so as not to overlap on the entire portion of the reflection electrodes 3 and to a stripe form so as to overlap without fail on the entire portion of the transmission electrodes 8

COPYRIGHT: (C)2000,JPO

